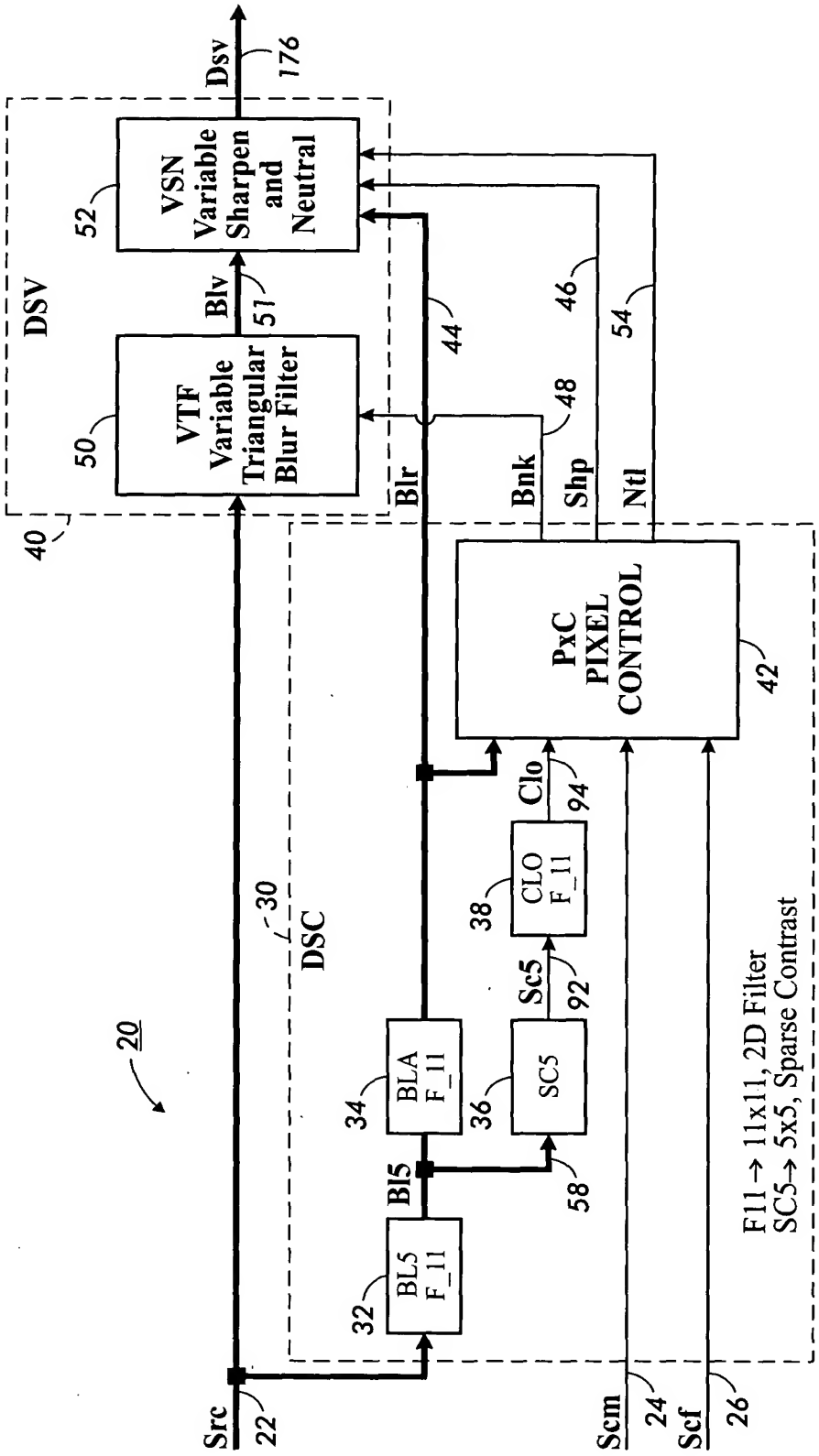
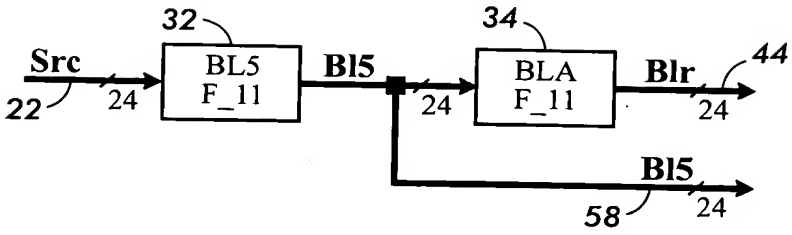

Dsv
176
DSV
VSN Variable Sharpen and Neutral
52
Blv
51
VTF Variable Triangular Blur Filter
50
40
44
46
54
48
Blr
Bnk
Shp
Ntl
PxC PIXEL CONTROL
42
Clo
94
CLO F_11
38
Sc5
92
SC5
36
BLA F_11
34
Bl5
58
BL5 F_11
32
30
DSC
20
Src
22
Scm
24
Scf
26
F11→ 11x11, 2D Filter
SC5→ 5x5, Sparse Contrast

FIG. 1

FIG. 2



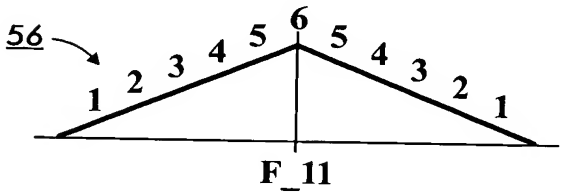


FIG. 3

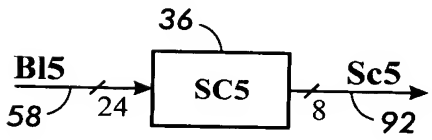
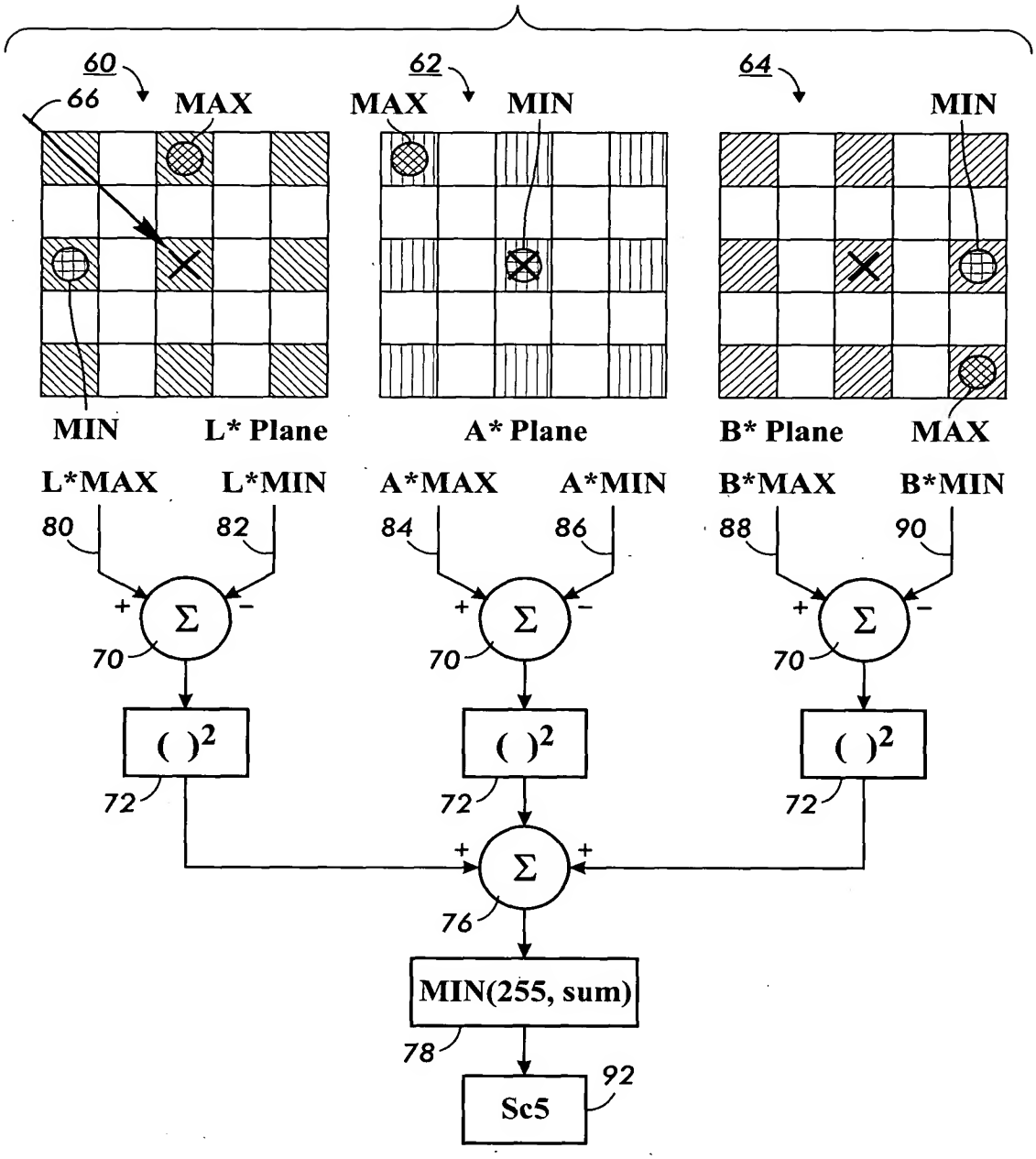


FIG. 4

FIG. 5


60
66
MAX
MIN
L* Plane
62
MAX
MIN
A* Plane
64
MIN
B* Plane
MAX
L*MAX
L*MIN
A*MAX
A*MIN
B*MAX
B*MIN
80
82
84
86
88
90
Σ
70
( )2
72
76
MIN(255, sum)
78
Sc5
92

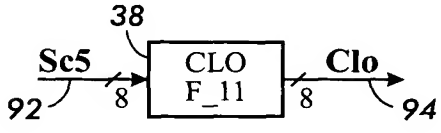

38
Sc5
92
8
CLO
F_11
8
Clo
94

FIG. 6

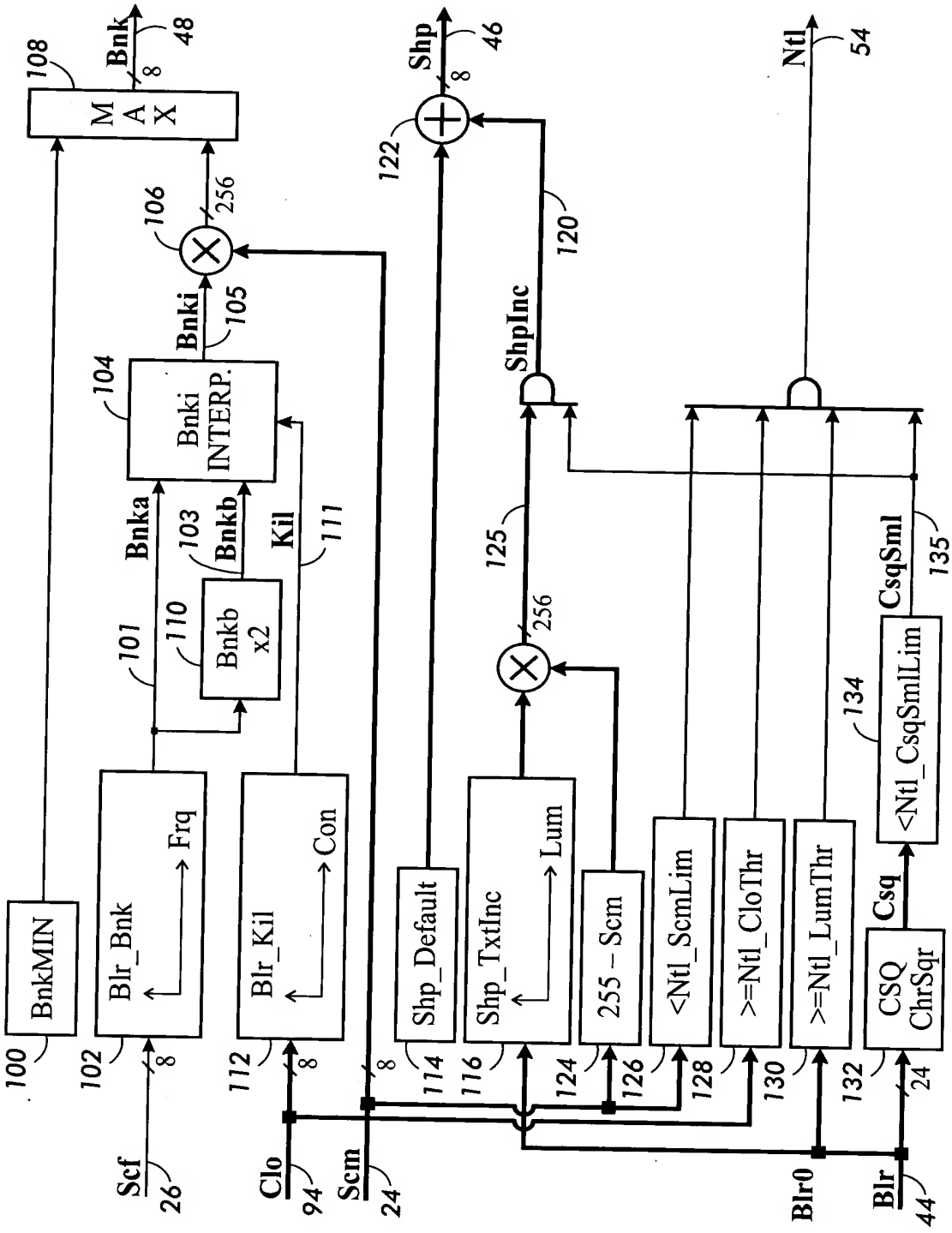
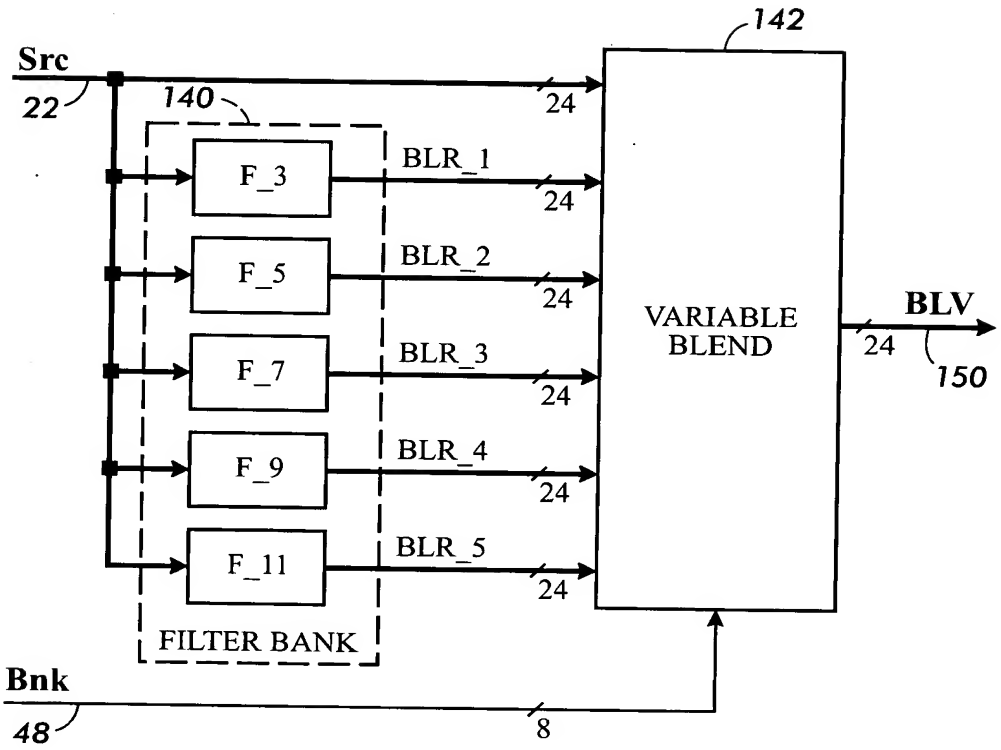

BnkMIN
100
Blr_Bnk
Frq
102
Scf
26
8
Blr_Kil
Con
112
Clo
94
Scm
24
Bnka
101
Bnkb
103
Bnkb x2
110
Kil
111
Bnki INTERP.
104
Bnki
105
106
256
MAX
108
Bnk
8
48
Shp_Default
114
Shp_TxtInc
Lum
116
255 – Scm
124
126
<Ntl_ScmLim
128
>=Ntl_CloThr
130
>=Ntl_LumThr
132
CSQ ChrSqr
Csq
24
Blr
44
Blr0
<Ntl_CsqSmlLim
134
CsqSml
135
ShpInc
120
125
256
122
Shp
8
46
Ntl
54

FIG. 7

FIG. 8


142
Src
22
140
24
F_3
BLR_1
24
F_5
BLR_2
24
F_7
BLR_3
24
F_9
BLR_4
24
F_11
BLR_5
24
FILTER BANK
VARIABLE BLEND
BLV
24
150
Bnk
48
8

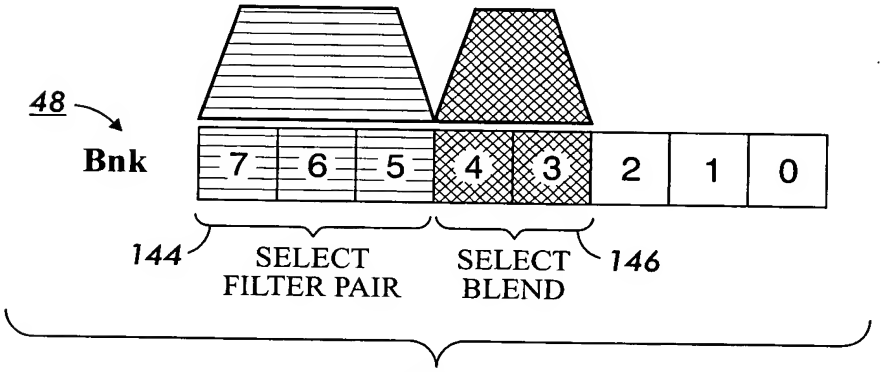
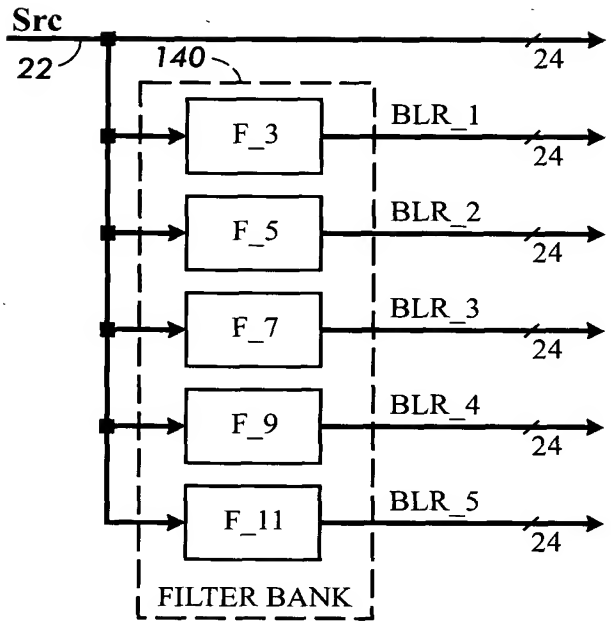

48
Bnk
7
6
5
4
3
2
1
0
144
SELECT FILTER PAIR
SELECT BLEND
146

FIG. 9

FIG. 10



160

Bnk bit 7	Bnk bit 6	Bnk bit 5	Bank Select
0	0	0	Src and Blr_1
0	0	1	Blr_1 and Blr_2
0	1	0	Blr_2 and Blr_3
0	1	1	Blr_3 and Blr_4
1	0	0	Blr_4 and Blr_5
1	0	1	Blr_5
1	1	0	INVALID
1	1	1	INVALID

FIG. 11

FIG. 12

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Filter Index	Filter Width	Filter 1D Wt.	Filter 2D Wt.	Factor	Shift for 11 bit precision
0	1	1	1	1	<<3
1	3	4	16	1	>>1
2	5	9	81	809	>>13
3	7	16	256	1	>>5
4	9	25	625	839	>>16
5	11	36=9*4	1296=81*16	809	>>17

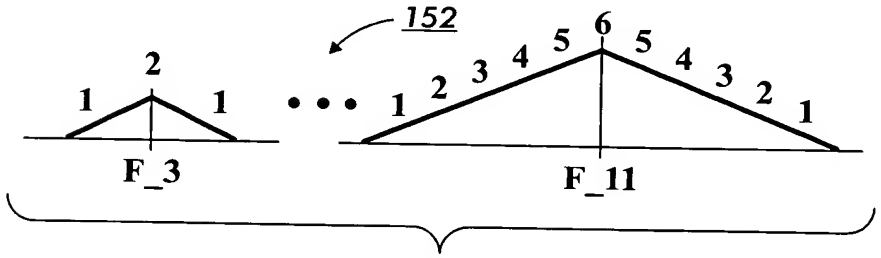

FIG. 13

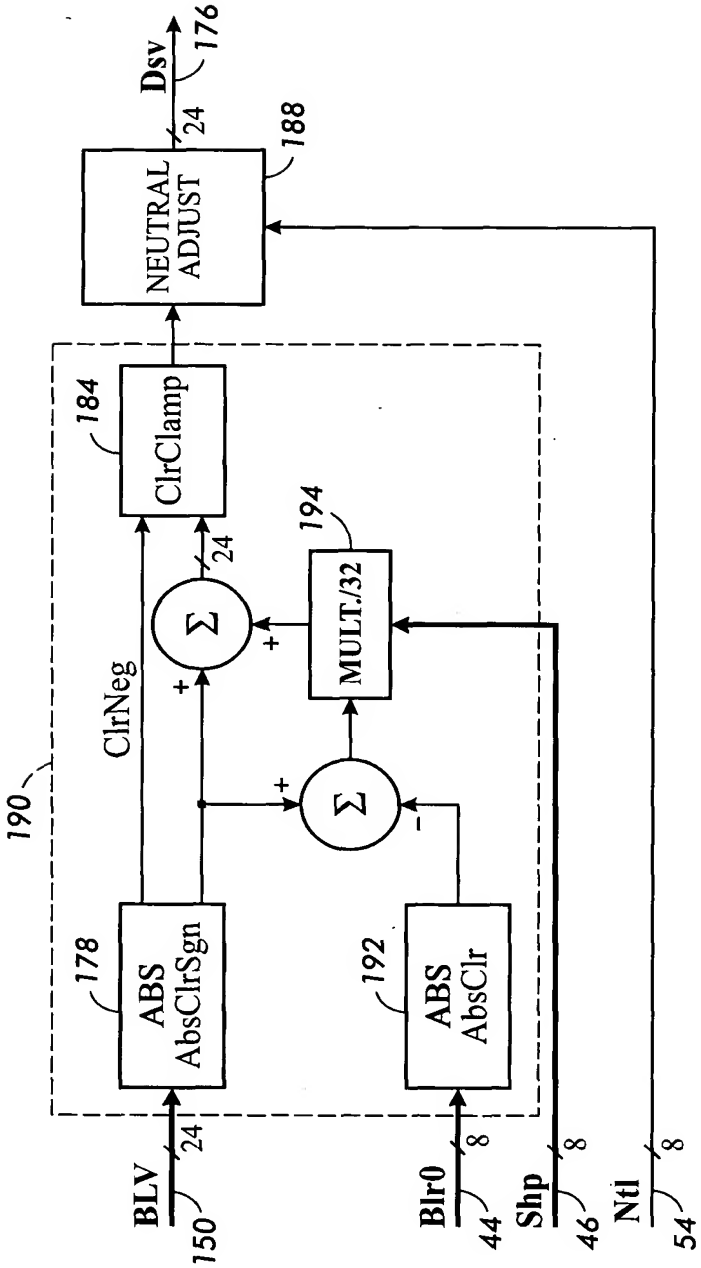
Dsv
176
24
188
NEUTRAL ADJUST
184
ClrClamp
194
MULT./32
Σ
24
+
+
ClrNeg
190
+
Σ
-
178
ABS
AbsClrSgn
192
ABS
AbsClr
BLV
150
24
Blr0
44
8
Shp
46
8
Ntl
54
8

FIG. 14